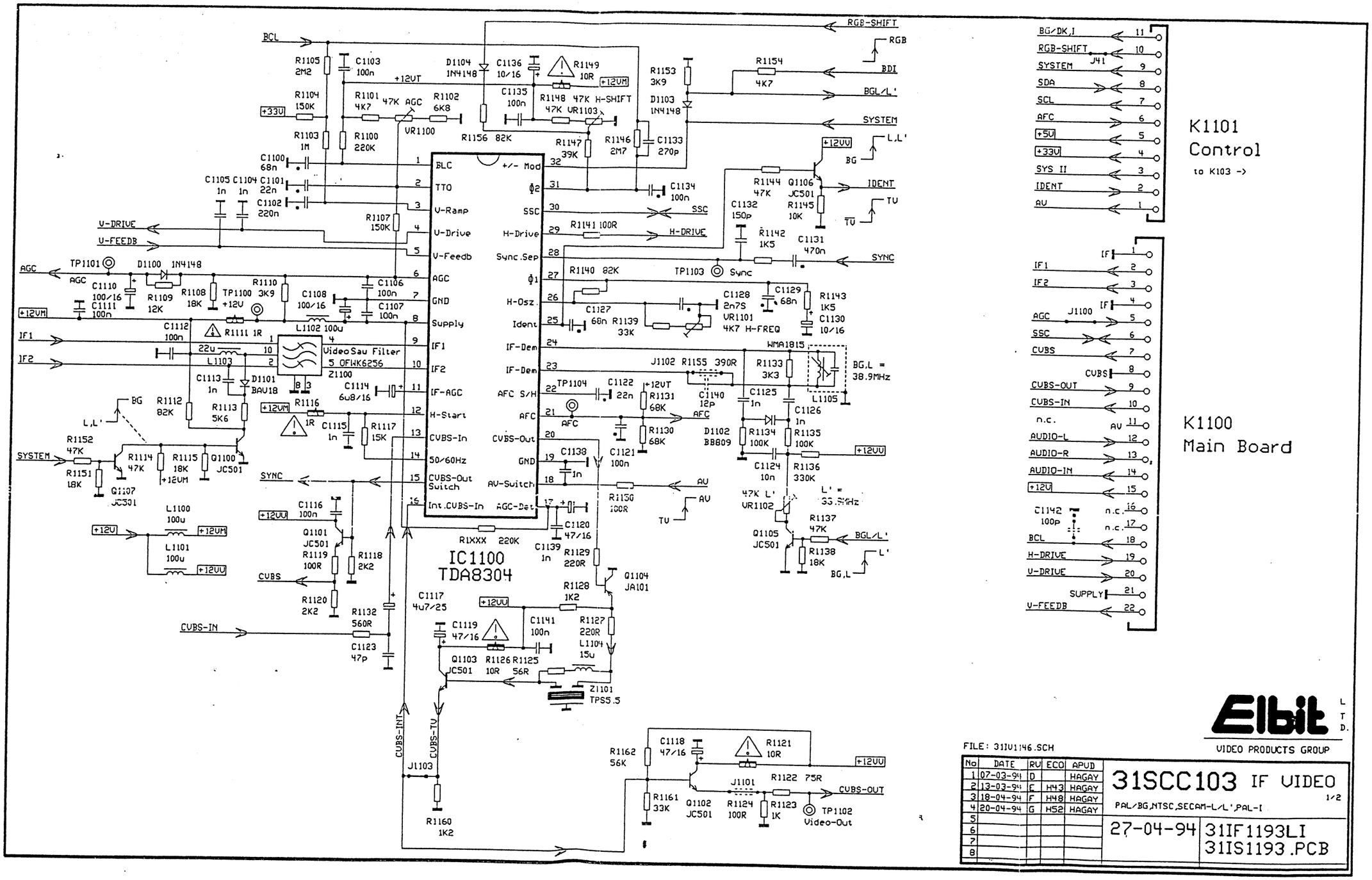
Elbit

VIDEO PRODUCTS GROUP

31SCC103



Elbit LTD.
VIDEO PRODUCTS GROUP

FILE: 31IV1146.SCH

No	DATE	RV	ECO	APVD
1	07-03-94	D		HAGAY
2	13-03-94	E	H43	HAGAY
3	18-04-94	F	H48	HAGAY
4	20-04-94	G	H52	HAGAY
5				
6				
7				
8				

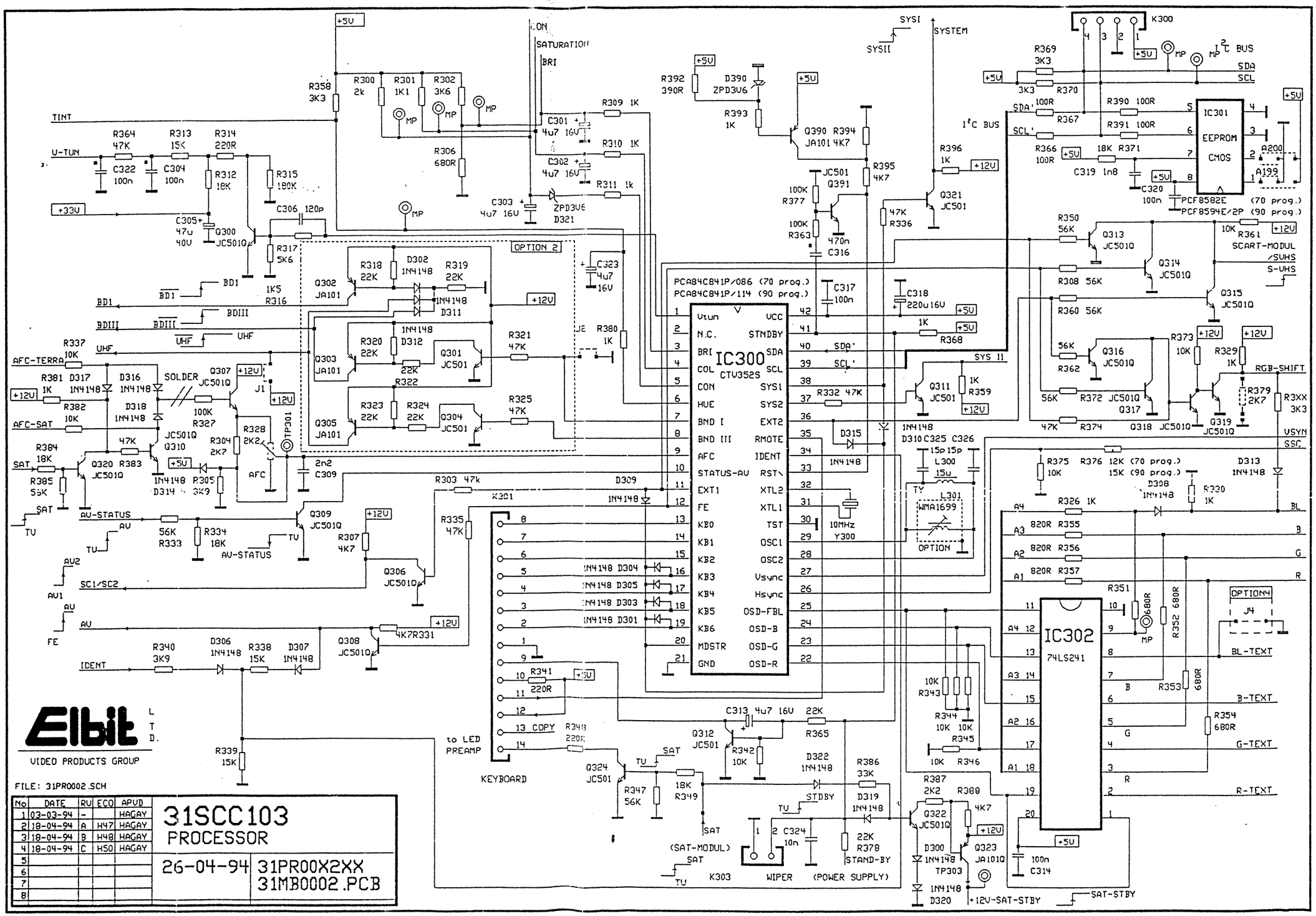
31SCC103 IF VIDEO

1/2

PAL/BG,NTSC,SECAM-L/L',PAL-I

27-04-94

31IF1193LI
31IS1193.PCB



No	DATE	RV	ECO	APVD
1	03-03-94	-		HAGAY
2	18-04-94	A	H47	HAGAY
3	18-04-94	B	H48	HAGAY
4	18-04-94	C	H50	HAGAY
5				
6				
7				
8				

Horizontal Deflection

E/W Correction

T600
AT2078/83EP
* AT2077/34M

EHT to CRT

C600
22n

R606
1M2

D001
1N4148

R009
33K

BCL-IF

BCL-COL

+12V

R607
22K
1%

to CRT
FOCUS

UG2

TP601
H-GND

+185V

n.c.

AQUADAG

+12V

FIL-GND

FIL

K600
CRT

J604
FILGND

to K700 ->

C603
150n 63V

C607
150n 63V

J603
(NoCmp)

J605

R608
0R22
0W5

D605
BYD33D

D601
BYD33G

TP602
+185V

TP603
+148V

C605
10u
250V

R646
0R22
0W5

K601
Horizontal
<- to Tube

+148V

C604
100u 160V

C645
4u7 160V

D608
BYD33G

R602
1K
1W

R645 10K

LC110/XX
L601

470n
C606 250V

H
DY

L602
AT4043/100

EW-Bridge Coil

R610
(10K)

R603
2K7

D602
1N4148

R609
10K

SSC

D611
1N4148

* SECAM
ONLY

C999 100P
50V

+12V

+26VLOT

C615
220u
40V

R601
1K5
5W

C608
100n
250V

D603
BYD33G

C611
7n5 2KV

G601
BU508AF

C610
2n7 2KV
* 3n3 2KV

C613
680n
250V

L604
AT4043/60

E/W

R650
220R 0W5

Q652
BC557

R656
47K

R655
220K

C609
820p
500V

R600
1k8
1W

T602
AT4043/87

L603
5u

R604
0R68
4W

R605
47R

C612
22n
1KV

D606
BY228

D609
BYW96D

R644
22R 0W5

R647
2R2

C614
470n

* TOP LINE OPTION

R651
6K8

R652
3K3

R654
3K3

R657
100K

WIDTH
R659
4K7

R660
22K
PAR.

R658
47K

R661
1K5

Q651
BC558

R653
2K7

C659
1n
500V

Q650
BDT61BF

C651
22u
25V

R663
10K

R664
470K

C655
470n

R666
39K

R667
24K

C654
150n

Q653
BC548C

R662
1K

C652
220u
10V

R665
15K

C653
150n

R668
100K
PHASE
R672
47K

U-CORR

R673
120R

C616
47n

R639
1K5

H-DRIVE

Q600
BF819

D600
1N4148

R643
1K

R611
47R

R612
47K

+12V-SAT-STBY

C602
220u/16

R613
1K

Q602
JC501Q

R614
33K

SAT-STBY

D610
3V6

+12V

VIDEO PRODUCTS GROUP

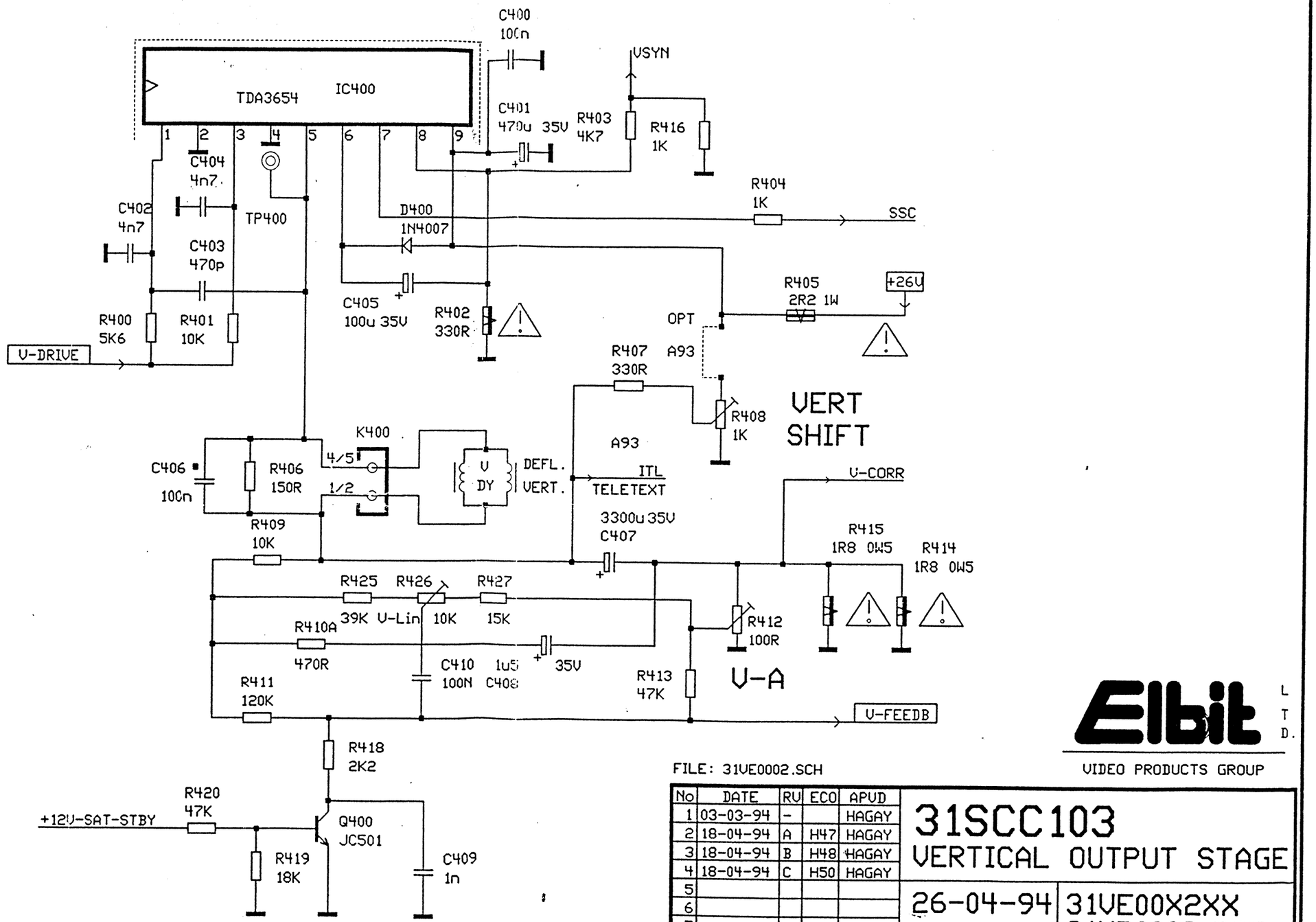
FILE: 31H00002.SCH

No	DATE	RV	ECO	APVD
1	03-03-94	-		HAGAY
2	18-04-94	A	H47	HAGAY
3	18-04-94	B	H48	HAGAY
4	18-04-94	C	H50	HAGAY
5				
6				
7				
8				

31SCC103
HORIZONTAL

26-04-94

31H000X2XX
31MB0002.PCB



Elbit LTD.

VIDEO PRODUCTS GROUP

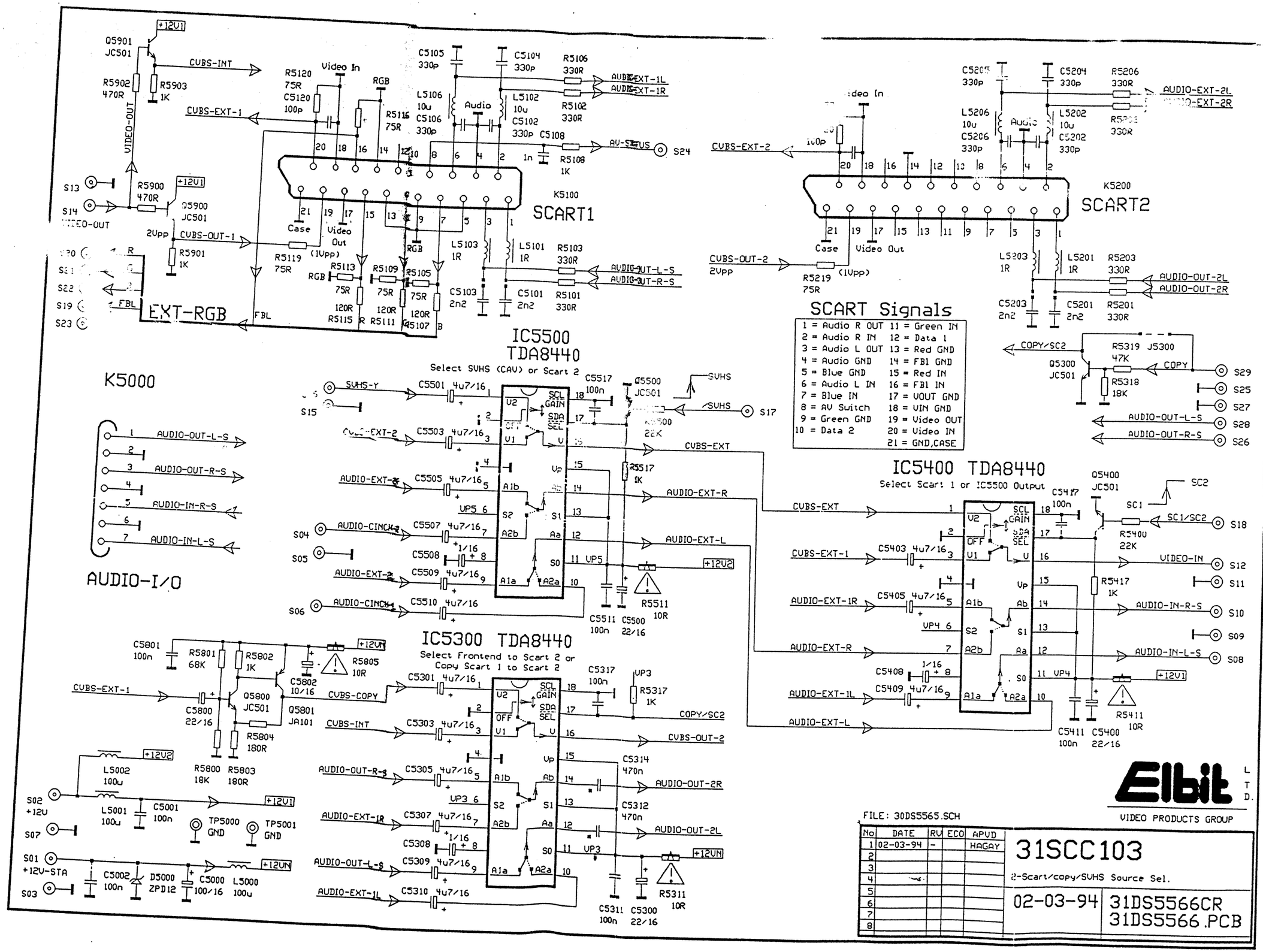
FILE: 31VE0002.SCH

No	DATE	RV	ECO	APVD
1	03-03-94	-		HAGAY
2	18-04-94	A	H47	HAGAY
3	18-04-94	B	H48	HAGAY
4	18-04-94	C	H50	HAGAY
5				
6				
7				
8				

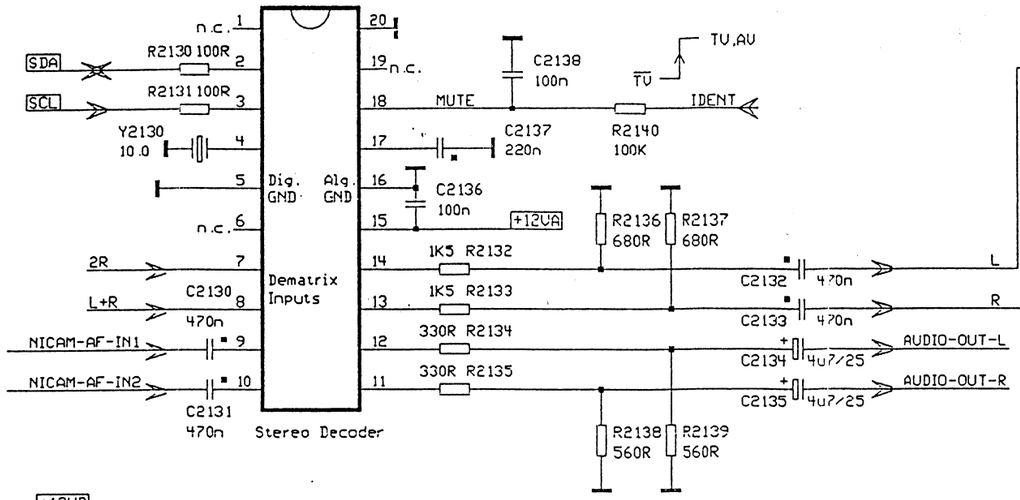
31SCC103
VERTICAL OUTPUT STAGE

26-04-94

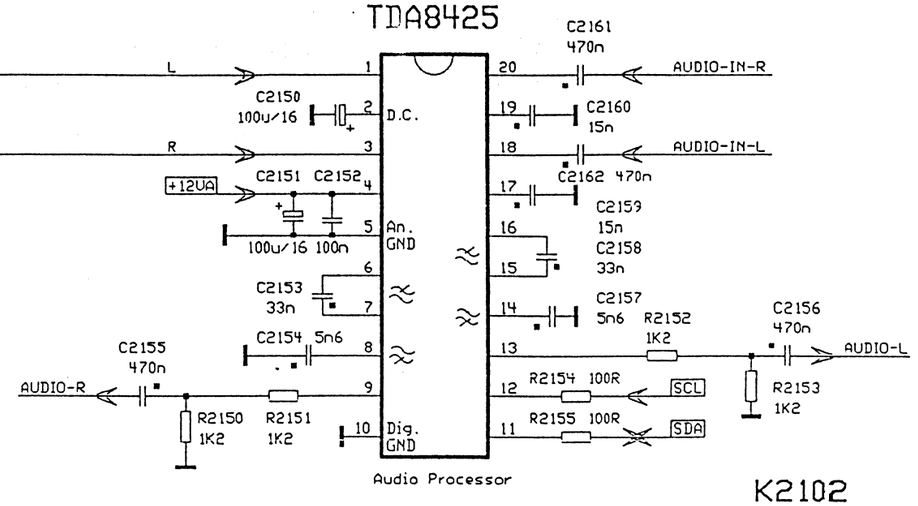
31VE00X2XX
31MB0002.PCB


+12V1
Q5901
JC501
CVBS-INT
R5902
470R
R5903
1K
VIDEO-OUT
R5120
75R
C5120
100p
Video In
RGB
CVBS-EXT-1
R5116
75R
C5105
330p
C5104
330p
R5106
330R
L5106
10u
C5106
330p
Audio
L5102
10u
C5102
330p
C5108
R5102
330R
AUDIO-EXT-1L
AUDIO-EXT-1R
AV-SWITCH
S24
1n
R5108
1K
S13
S14
VIDEO-OUT
R5900
470R
+12V1
Q5900
JC501
2Vpp
CVBS-OUT-1
R5901
1K
K5100
SCART1
Case
Video Out
(1Vpp)
R5119
75R
RGB
FBL
EXT-RGB
R5113
75R
R5109
75R
R5105
75R
120R
R5115
120R
R5111
120R
Q5107
L5103
1R
L5101
1R
R5103
330R
C5103
2n2
C5101
2n2
R5101
330R
AUDIO-OUT-L-S
AUDIO-OUT-R-S
S20
S21
S22
S19
S23
R
G
B
FBL
K5000
AUDIO-I/O
1 AUDIO-OUT-L-S
2
3 AUDIO-OUT-R-S
4
5 AUDIO-IN-R-S
6
7 AUDIO-IN-L-S
IC5500
TDA8440
Select SVHS (CAV) or Scart 2
SVHS-Y
S15
C5501 4u7/16
C5517
100n
Q5500
JC501
R5500
22K
SVHS
S17
CVBS-EXT-2
C5503 4u7/16
CVBS-EXT
R5517
1K
AUDIO-EXT-2
C5505 4u7/16
AUDIO-EXT-R
AUDIO-CINCH-2
S04
C5507 4u7/16
S05
C5508
AUDIO-EXT-L
AUDIO-CINCH-1
S06
C5509 4u7/16
C5510 4u7/16
+12V2
R5511
10R
C5511
100n
C5500
22/16
SCL
GAIN
SDA
SEL
OFF
V1
V2
Vp
A1b
A2b
A1a
A2a
S1
S2
Aa
Ab
S0
VP5
IC5300 TDA8440
Select Frontend to Scart 2 or
Copy Scart 1 to Scart 2
C5801
100n
R5801
68K
R5802
1K
R5805
10R
C5802
10/16
+12VN
CVBS-EXT-1
C5800
22/16
Q5800
JC501
Q5801
JA101
CVBS-COPY
CVBS-INT
R5804
180R
R5800
18K
R5803
180R
C5301 4u7/16
C5303 4u7/16
C5317
100n
VP3
R5317
1K
COPY/SC2
CVBS-OUT-2
C5314
470n
C5312
470n
AUDIO-OUT-2R
AUDIO-OUT-2L
L5002
100u
S02
+12V
L5001
100u
C5001
100n
TP5000
GND
TP5001
GND
S07
S01
+12V-STA
S03
C5002
100n
D5000
ZPD12
C5000
100/16
L5000
100u
C5305 4u7/16
C5307 4u7/16
C5308
C5309 4u7/16
C5310 4u7/16
C5311
100n
C5300
22/16
R5311
10R
VP3
K5200
SCART2
C5205
330p
C5204
330p
R5206
330R
L5206
10u
C5206
330p
L5202
10u
C5202
330p
R5202
330R
AUDIO-EXT-2L
AUDIO-EXT-2R
CVBS-EXT-2
100p
L5203
1R
L5201
1R
R5203
330R
C5203
2n2
C5201
2n2
R5201
330R
AUDIO-OUT-2L
AUDIO-OUT-2R
CVBS-OUT-2
2Vpp
R5219
75R
SCART Signals
1 = Audio R OUT
2 = Audio R IN
3 = Audio L OUT
4 = Audio GND
5 = Blue GND
6 = Audio L IN
7 = Blue IN
8 = AV Switch
9 = Green GND
10 = Data 2
11 = Green IN
12 = Data 1
13 = Red GND
14 = FBl GND
15 = Red IN
16 = FBl IN
17 = VOUT GND
18 = VIN GND
19 = Video OUT
20 = Video IN
21 = GND,CASE
COPY/SC2
R5319
47K
J5300
Q5300
JC501
COPY
R5318
18K
S29
S25
S27
S28
S26
AUDIO-OUT-L-S
AUDIO-OUT-R-S
IC5400 TDA8440
Select Scart 1 or IC5500 Output
CVBS-EXT
CVBS-EXT-1
AUDIO-EXT-1R
AUDIO-EXT-R
AUDIO-EXT-1L
AUDIO-EXT-L
C5403 4u7/16
C5405 4u7/16
C5408
C5409 4u7/16
VP4
C5417
100n
Q5400
JC501
SC2
SC1
SC1/SC2
R5400
22K
S18
VIDEO-IN
S12
R5417
1K
S11
AUDIO-IN-R-S
S10
S09
AUDIO-IN-L-S
S08
+12V1
R5411
10R
C5411
100n
C5400
22/16
Elbit
LTD.
VIDEO PRODUCTS GROUP
FILE: 30DS5565.SCH
No DATE RV ECO APVD
1 02-03-94 - HAGAY
31SCC103
2-Scart/copy/SVHS Source Sel.
02-03-94
31DS5566CR
31DS5566.PCB

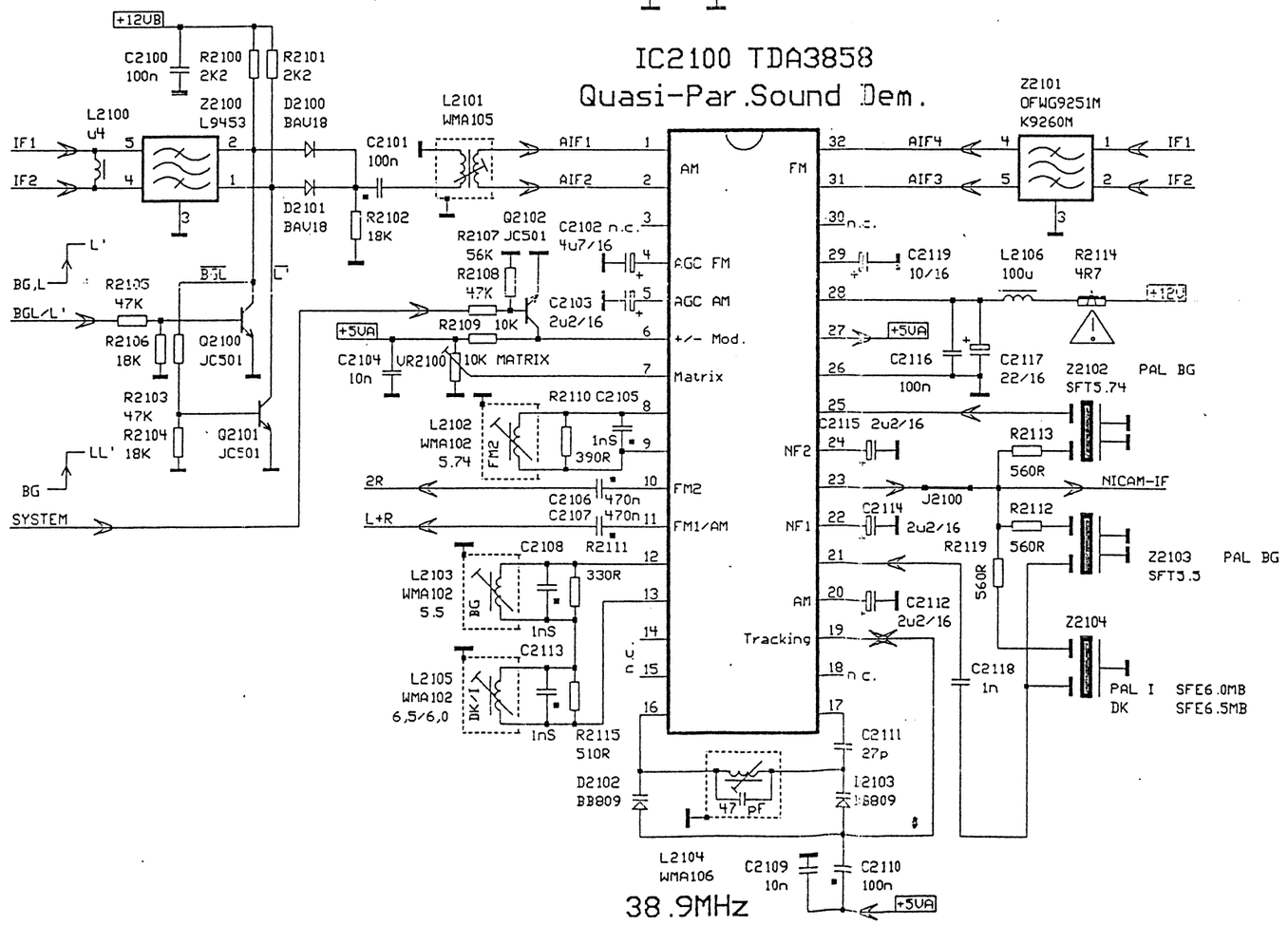
IC2101 TDA8416



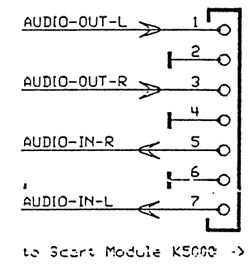
IC2102 TDA8425

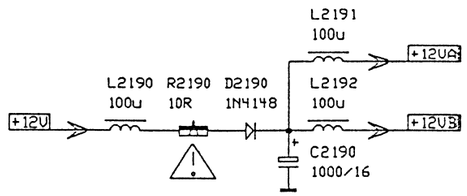


IC2100 TDA3858
Quasi-Par.Sound Dem.



K2102
AUDIO-I/O





Elbit LTD.
VIDEO PRODUCTS GROUP

FILE: 31IA2236.SCH

No	DATE	RV	ECO	APVD
1	07-03-94	D		HAGAY
2	13-03-94	E	H43	HAGAY
3	18-04-94	F	H48	HAGAY
4	20-04-94	G	H52	HAGAY
5				
6				
7				
8				

31SCC103 IF AUDIO 2/2

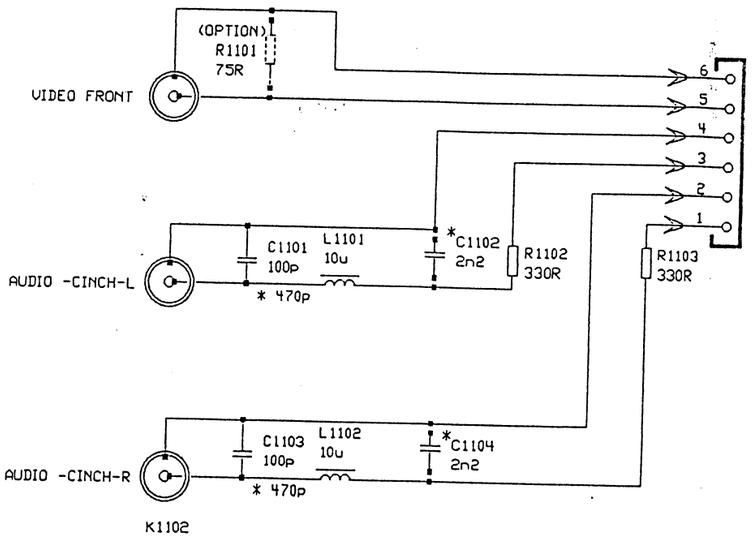
STEREO

27-04-94

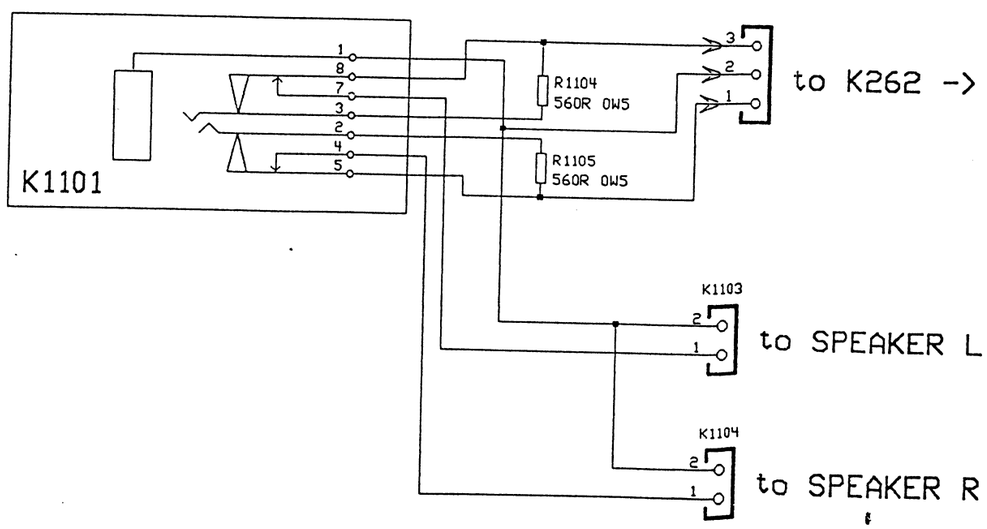
31IF1193LI
31IS1193.PCB

22EAR101CR

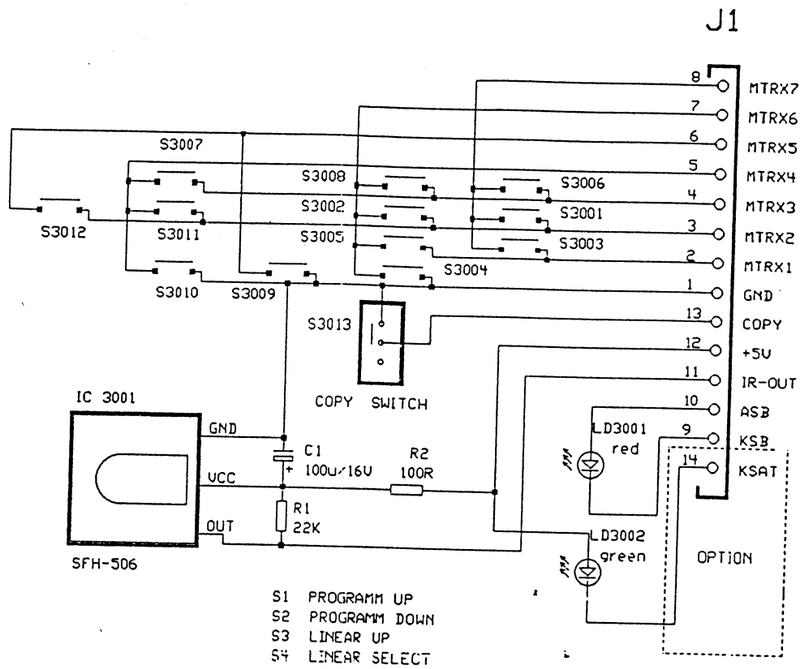
* OPTION FOR 22EAR10100



to K050 ->



30KY3000



S1 PROGRAMM UP
S2 PROGRAMM DOWN
S3 LINEAR UP
S4 LINEAR SELECT
S5 LINEAR DOWN
S6 FINE TUNING UP
S7 SEARCH
S8 FINE TUNING DOWN
S9 STORE
S10 CLEAR
S11 PAL/SECAM
S12 SYSTEM SELCECT
S13 COPY SELECTOR

Elbit LTD.
VIDEO PRODUCTS GROUP

FILE: EARKBD.SCH

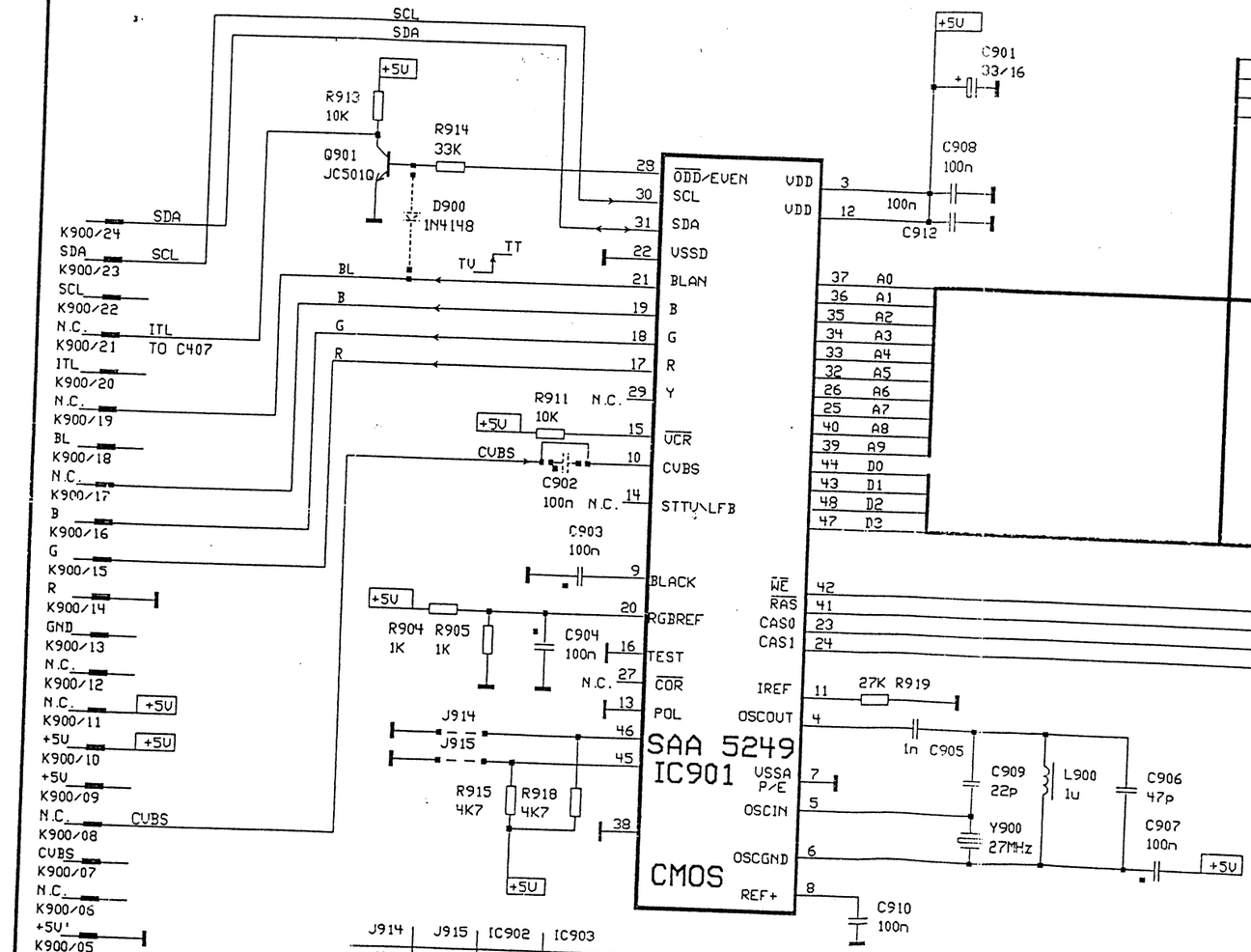
No	DATE	RV	ECO	APVD
1	09-03-94	-		HAGAY
2		7		
3				
4				
5				
6				
7				
8				

31SCC103
EARPHONE + KEYBOARD

09-03-94

22EAR101.PCB
30KY3000.PCB

I²C BUS



J914	J915	IC902	IC903
Y	Y	-	-
Y	N	256K	-
N	Y	256K	256K
--> N	N	1M	-

Elbit LTD.
VIDEO PRODUCTS GROUP

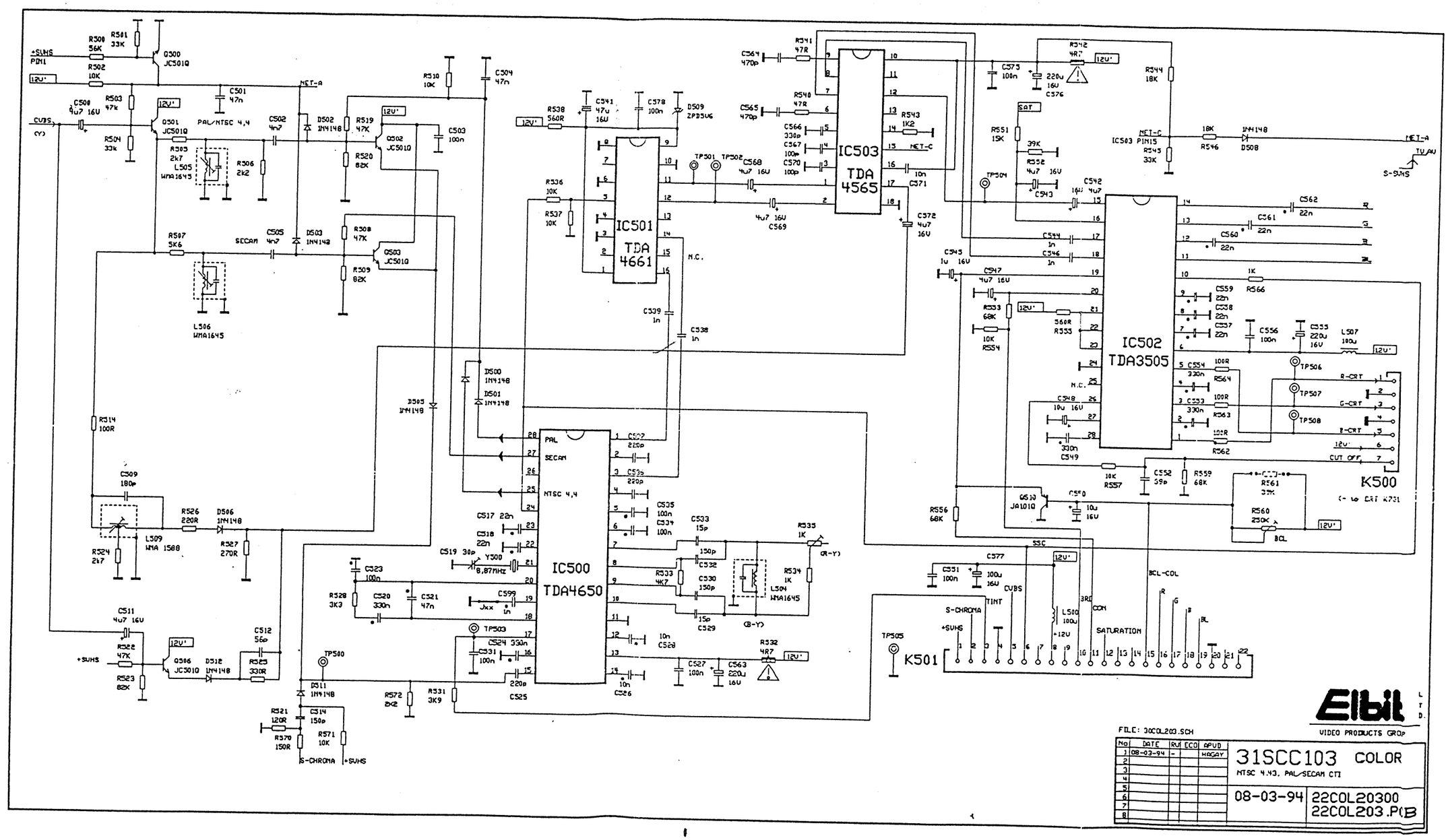
FILE: 31TF9980.SCH

No	DATE	RV	ECO	APVD
1	02-03-94	-		HAGAY
2				
3				
4				
5				
6				
7				
8				

TELETEXT BCM
WITH IC SAA5249

02-03-94

31TF9980.SCH
31TF9980.PCB


IC501 TDA 4661
IC503 TDA 4565
IC502 TDA3505
IC500 TDA4650
K500
K501
L505 WMA1645
L506 WMA1645
L509 WMA 1588
L504 WMA1645
L500 100µ
Y500 8,87MHz
+SVHS
CVBS
(Y)
MET-A
MET-C
PAL/NTSC 4,4
SECAM
S-CHROMA
TINT
CON
SAT
SSC
BCL
BCL-COL
SATURATION
R-CRT
G-CRT
B-CRT
CUT OFF
(R-Y)
(B-Y)
TV AN
S-SVHS
N.C.
12V'
Elbit LTD.
VIDEO PRODUCTS GROP
FILE: 30COL203.SCH
31SCC103 COLOR
NTSC 4.43, PAL/SECAM CTI
08-03-94
22COL20300
22COL203.PCB

DRIVE

K701
1 R-CRT
2
3 G-CRT
4
5 B-CRT
6 +12U
7 CUTOFF
<- to Color K500

SUPPLY

1 FIL
2 FIL-GND
3 n.c.
4 AQUADAG
5 n.c.
6 +185U
K700B
<- to MB K600

K703 UG2 — UG2

BLUE

B — R710 B-Gain 470R — R711 1K5 — UREF, +12U*
R712 820R, OPTION 68p C710, R713 620R
C711 100n, C712 100n, C713 220n 250V, R714 36K 1W, C714 470p
IC701 TDA6101Q
B-DRIVE

GREEN

G — R720 G-Gain 470R — R721 1K5 — UREF, +12U*
R722 820R, OPTION 68p C720, R723 620R, R724 36K 1W, C724 470p
C721 100n, C722 100n, C723 220n 250V
IC702 TDA6101Q
G-DRIVE

RED

R — R730 120R, R731 820R — UREF, +12U*
R732 820R, OPTION 68p C730, R733 620R, R734 36K 1W, C734 470p
C731 100n, C732 100n, C733 220n 250V
IC703 TDA6101Q
R-DRIVE

+12U* — R705 180K R-CUTOFF, R706 43K G-CUTOFF, R707 43K B-CUTOFF, R708 120K

+185U — R704 150R — +UB
C740 10n 2KV6 — UG2
C704 10u 250V

+12U — D700 1N4148 — +12U*
R700 12R
C700 1000u 16V, C701 1000u 16V

+12U* — R703 — UREF
R701 15K, R702 4K7
Q700 JA101PQ
C702 33u 16V
C703 220n

FOCUS EHT

UG2 — R740 1K5 0W5
FIL — R741 ***
FIL-GND
R745 1K5 0W5
K702 TUBE: 9 F1, 10 F2, 5 G1, 7 G2
R-DRIVE — R742 1K5 0W5 — 8 KR
G-DRIVE — R743 1K5 0W5 — 6 KG
B-DRIVE — R744 1K5 0W5 — 11 KB
AQUADAG — 0, 3, 4
TUBE
110°
AQUADAG
K704 AQUADAG

***

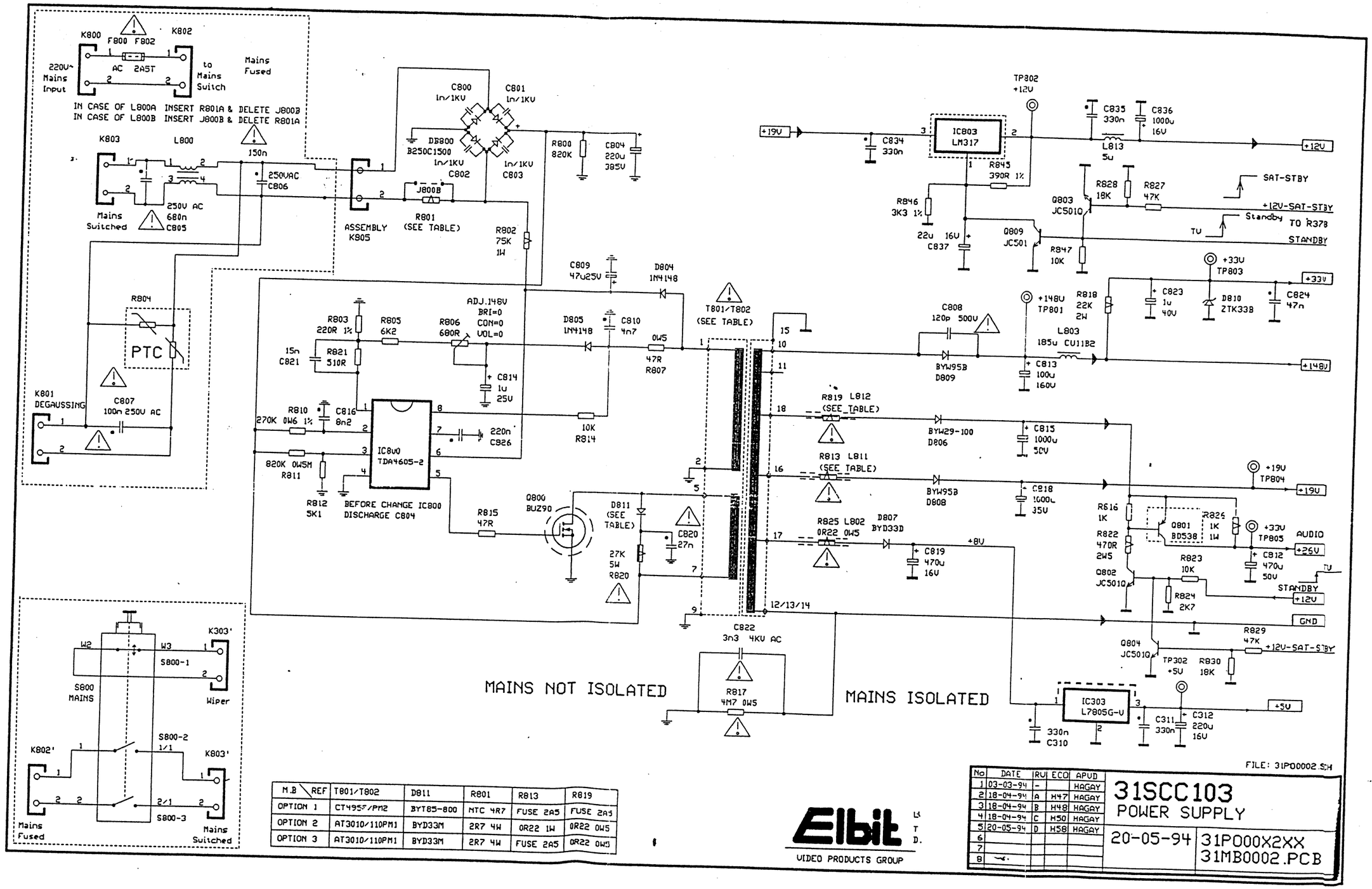
	CPT	A66/A59 EAK 71x11	A66/A59 ECF 10x05	A66/A59 EAK252x11
***	R741	6R2 2W 5%	6R2 2W 5%	2R2 2W 5%

Elbit LTD.
VIDEO PRODUCTS GROUP

FILE: 30CRT001.SCH

No	DATE	RV	ECO	APVD
1	08-03-94	-		HAGAY
2				
3				
4				
5				
6				
7				
8				

31SCC103
CRT
08-03-94
22CRT00100/TO
22CRT001.PCB



M.B \ REF	T801/T802	D811	R801	R813	R819
OPTION 1	CT4957/PM2	BYT85-800	NTC 4R7	FUSE 2A5	FUSE 2A5
OPTION 2	AT3010/110PM1	BYD33M	2R7 4W	0R22 1W	0R22 0W5
OPTION 3	AT3010/110PM1	BYD33M	2R7 4W	FUSE 2A5	0R22 0W5

Elbit LTD.
VIDEO PRODUCTS GROUP

FILE: 31P00002.SCH

No	DATE	RU	ECO	APUD
1	03-03-94	-		HAGAY
2	18-04-94	A	H47	HAGAY
3	18-04-94	B	H48	HAGAY
4	18-04-94	C	H50	HAGAY
5	20-05-94	D	H58	HAGAY
6				
7				
8				

31SCC103
POWER SUPPLY

20-05-94

31P000X2XX
31MB0002.PCB

TUNER

IF-AUDIO/STEREO
PAL - 31IF1193BG
SECAM-31IF1193DK
SECAM-31IF1193LI
SECAM-31IF1193CR
SAT - 31IF119300

NICAM MODUL
PAL BG 31NI2970BG
PAL I 31NI2970PI

31DFS001

SCART1
SCART2
VIDEO
AUDIO
SOURCE
SELECT
MODUL
31DS5566
SCART AUDIO

MODUL TYP
PAL ONLY
30COL400
PAL/SECAM/NTSC4,4
22COL203
PAL/SECAM/NTSC4,4
30CO5212
COLOUR DECODER

AUDIO
AMPLIFIER
OUTPUT STAGE

EARPHONE
ASSEMBLY
FRONT PANEL

OPTION
TOP
OR
FAST
TEXT
MODUL

TELETEXT
22FST000

MAINS
FILTERS
ON/OFF SWITCH&FILTER BOARD

POWER SUPPLY

STD. 31SM009400
NICAM 31SM0094NI
ARB 31SM0094AR
SAT MODUL

VERTICAL
OUTPUT STAGE

E/W CORRECTION
HORIZONTAL
OUTPUT
STAGE

PROZESSOR
EEPROM

LOCAL KEYBOARD

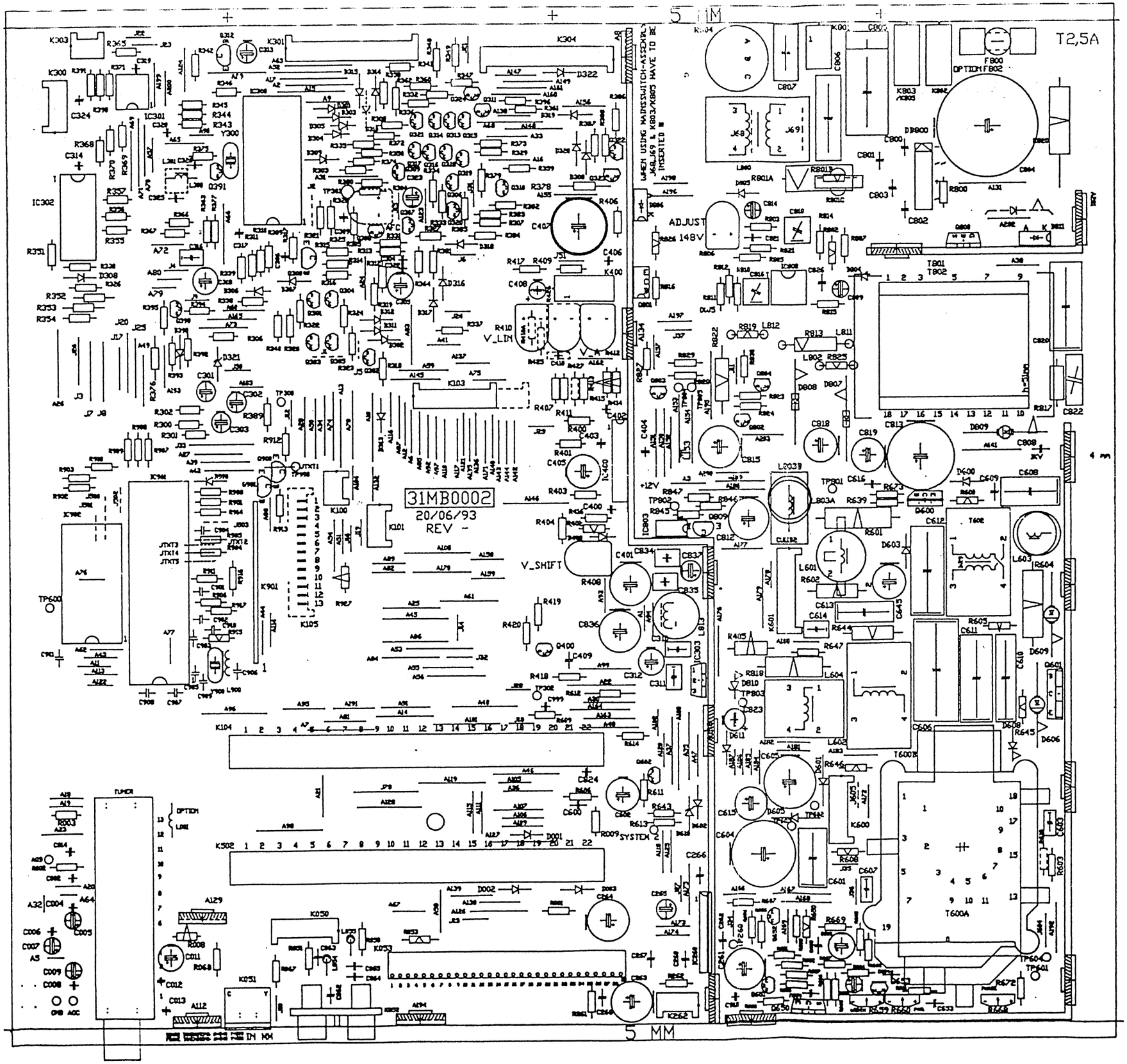
MODUL
CRT BOARD
22CRT001

STANDART : 22KBD003 /22KBD004
SAT : 22KST001

Elbit

NO	DATE	PRJ	ECO	APP'D	31SCC103
	10-01-94			HAGAY	25"+28"
	18-01-94	A	94.7	HAGAY	
	18-01-94	B	94.8	HAGAY	26-04-94 31MB00X2XX
	18-01-94	C	100	HAGAY	31MB0002.PCB

FILE: 31MB0002.SCH



31MB0002

TOP OVERLAY

Grundplatte SCC 103